



*Element Materials Technology - Fort Wayne*  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: [www.element.com](http://www.element.com)

April 21, 2020

Nickie Geros  
East Chicago Sanitary District  
5201 Indianapolis Blvd  
East Chicago, IN 46312  
TEL: 219-391-8466  
FAX:

RE: #901

Order No.: 20041178

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 4/14/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Samantha K. Packard  
Project Manager  
328 Ley Rd.  
Fort Wayne, IN 46825



Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: www.element.com

## Analytical Report

(wastewater)

WO#: 20041178

Date Reported 4/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 4/13/2020 8:55:00 AM  
**Project:** #901  
**Lab ID:** 20041178-001 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>CYANIDE, AVAILABLE BY LIGAND EXCHANGE</b>				<b>OIA-1677-09</b>		Analyst: <b>AN</b>	
Cyanide, Available	0.077	0.0020		mg/L	1		4/16/2020 9:20:00 AM
<b>OIL AND GREASE, TOTAL</b>				<b>E1664</b>		Analyst: <b>HF</b>	
Oil & Grease, Total	22.2	5.0		mg/L	1	50.0	4/15/2020 1:41:21 PM
<b>SV COMPOUNDS FOR CATEGORICAL RQTS</b>				<b>E625</b>		Analyst: <b>SF</b>	
Bis(2-ethylhexyl)phthalate	< 0.10	0.10		mg/L	10	0.16	4/20/2020 3:23:00 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: www.element.com

# Analytical Report

(wastewater)

WO#: 20041178

Date Reported 4/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 4/13/2020 8:55:00 AM  
**Project:** #901  
**Lab ID:** 20041178-002 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>FLUORIDE</b>					<b>E300.0</b>		Analyst: <b>HN</b>
Fluoride	2.6	0.5		mg/L	5	2.9	4/16/2020 4:06:45 PM
<b>CHEMICAL OXYGEN DEMAND</b>					<b>M5220 D</b>		Analyst: <b>MAH</b>
Chemical Oxygen Demand	1,320	30.0		mg/L	3		4/15/2020 2:07:00 PM
<b>AMMONIA AS N</b>					<b>E350.1</b>		Analyst: <b>AC</b>
Nitrogen, Ammonia (As N)	60.0	2.00		mg/L	20	77.0	4/16/2020 2:13:25 PM
<b>PHENOLICS IN WASTEWATER</b>					<b>E420.1</b>		Analyst: <b>ANS</b>
Phenolics, Total Recoverable	0.109	0.050		mg/L	2	0.700	4/21/2020 2:11:15 PM
<b>TOTAL PHOSPHORUS</b>					<b>M4500-P F</b>		Analyst: <b>HN</b>
Total Phosphorus	1.51	0.100		mg/L	1	5.50	4/15/2020 2:35:15 PM
<b>TOTAL SUSPENDED SOLIDS</b>					<b>M2540 D</b>		Analyst: <b>NB</b>
Suspended Solids (Residue, Non-Filterable)	882	59		mg/L	1		4/15/2020 10:15:00 AM
<b>MERCURY</b>					<b>E245.1</b>		Analyst: <b>FJR</b>
Mercury	0.00045	0.00010		mg/L	1		4/17/2020 12:00:36 PM
<b>METALS IN WATER BY ICP-MS, TOTALS</b>					<b>E200.8</b>		Analyst: <b>FJR</b>
Arsenic	0.00977	0.00020		mg/L	1	0.500	4/16/2020 11:21:52 AM
Chromium	0.0208	0.00040		mg/L	1	0.282	4/16/2020 11:21:52 AM
Copper	0.0133	0.00020		mg/L	1	0.301	4/16/2020 11:21:52 AM
Lead	0.00354	0.00020		mg/L	1	0.224	4/16/2020 11:21:52 AM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: www.element.com

## Analytical Report

(wastewater)

WO#: 20041178

Date Reported 4/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 4/13/2020 8:55:00 AM  
**Project:** #901  
**Lab ID:** 20041178-002 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR		
Molybdenum	0.115	0.00020		mg/L	1	0.200	4/16/2020 11:21:52 AM
Nickel	0.0213	0.00100		mg/L	1	0.390	4/16/2020 11:21:52 AM
Zinc	0.333	0.00400		mg/L	10	1.48	4/20/2020

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



# Chain of Custody

W52.M11.021

Laboratory Number:

20041179

Company Name:  
Contact Name:  
Address:

Client Information:  
East Chicago Sanitary District  
Nickle Geros  
5201 Indianapolis Blvd

Billing Information:  
Same

PO Number:

Quote Number:

Project Name/Number:  
S-901

Sampler's Signature

Page 1 of 1  
Matrix Code

Page 5 of 5

City, State Zip:

East Chicago IN 46312

Ext. 240

Ext.

Bill Monthly

Shipping Method:  
Huf

Phone Number:

219-391-8466

Fax Number:

E-mail  
Address: ngeros@eastchicago.com

☐ Yes  
☐ No

UPS / FedEx / Airborne  
DHL / Element / Hand / Mail

DW = Drinking Water  
WW = Waste Water  
GW = Ground Water  
AQ = Aqueous  
OT = Other  
SL = Sludge  
O = Oil  
F = Food  
NG = Natural Gas  
NGL = Natural Gas Liquid  
PW = Produced Water  
CF = Completion Fluid

## Which Regulations Apply:

- ☐ RCRA ☐ Drinking Water
- ☐ POTW ☐ Distribution
- ☐ NPDES ☐ Special
- ☐ USDA/FDA ☐ State
- ☐ RECAP/RI/SC ☐ Other

Turn Time  
5 TAT  
(Rush turn times will incur a surcharge and must be pre-approved by lab.)

## Collection Information

Date

Time

Grab / Composite

Matrix

Quantity

Type  
P=Plastic, G=Glass, V=Vial

HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, NaOH, Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

CYANIDE 1677

Oil & Grease Total

Bis(2EH) Phthalate

\*Metals

NH<sub>3</sub>, T.PHOS, COD

PHENOL

300:Fl

TSS

## Comments

Samples Meet Acceptance Policy  
☒ Yes ☐ No

\*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg,

Temp 23.8°C

S-901 Grab  
S-901 Grab  
S-901 Grab  
S-901 Composite  
S-901 Composite  
S-901 Composite  
S-901 Composite

4-13-20 8:55  
4-13-20 8:55  
4-13-20 8:55  
4-13-20 8:55  
4-13-20 8:55  
4-13-20 8:55  
4-13-20 8:55

Grab  
Grab  
Grab  
Comp  
Comp  
Comp  
Comp

WW  
WW  
WW  
WW  
WW  
WW  
WW

1  
1  
1  
1  
1  
1  
2

P  
G  
G  
P  
P  
P  
P

NAOH  
H<sub>2</sub>SO<sub>4</sub>  
H<sub>2</sub>SO<sub>4</sub>  
HNO<sub>3</sub>  
H<sub>2</sub>SO<sub>4</sub>  
H<sub>2</sub>SO<sub>4</sub>  
NONE

X  
X  
X  
X  
X  
X  
X

X  
X  
X  
X  
X  
X  
X

X  
X  
X  
X  
X  
X  
X

X  
X  
X  
X  
X  
X  
X

X  
X  
X  
X  
X  
X  
X

## Relinquished by

Date/Time

## Received by

Date/Time

Composite Sampler: Henry  
Start Date/Time: 4-13-20 8:55  
End Date/Time: 4-14-20 2:28

1  
2  
3

4-14-20 11:30  
4-14-20 3:40

Nickle Geros  
Nickle Geros

4-14-20 11:30  
4-14-20 15:10

Received at lab on ice?  
☒ Yes ☐ No

Temp: 5.3°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples.  
Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31  
Columbus, IN  
47201 USA  
P 812-375-0531  
F 812-375-0731

328 Ley Road, Suite 100  
Fort Wayne, IN  
46825 USA  
P 260-471-7000  
F 260-471-7777

909 Executive Dr.  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371 Cleveland Road, Suite 100A  
South Bend, IN  
46528-9780 USA  
P 574-277-0707

2417 W. Pinhook Rd  
Lafayette, LA  
70508-3344 USA  
P 337-235-0483  
F 337-233-6540